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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/556,220	12/04/2006	Craig B. Thompson	UPN0012-100	4279
34136	7590	10/07/2008	EXAMINER	
Pepper Hamilton LLP			RAE, CHARLESWORTH E	
400 Berwyn Park				
899 Cassatt Road			ART UNIT	PAPER NUMBER
Berwyn, PA 19312-1183			1611	
			MAIL DATE	DELIVERY MODE
			10/07/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/556,220	THOMPSON ET AL.	
	Examiner	Art Unit	
	CHARLESWORTH RAE	1611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 23 June 2008.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-33,35-37,43,44 and 49-57 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) _____ is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) 1-33, 35-37, 43, 44, and 49-57 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ . | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

This Office action is intended to vacate all previously issued restriction/election requirements. Applicant's elections in response to said previous restriction/election requirements are therefore rendered moot.

Status of Claims

Claims 1-33, 35-37, 43-44, 49-57 are currently pending in this application and are the subject of the Office action.

Preliminary Amendment

The amendment filed 06/23/08 is acknowledged and made of record.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which lack unity of invention under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- I. Claims 1-26, 35-37, and 49-53, drawn to a method of treating an individual who has cancer. If this Group is elected, then the below Summarized Species Election is also required.
- II. Claims 27-33, and 43-44, drawn to a method of inducing apoptosis in a cancer cell in vitro. If this Group is elected, then the below Summarized Species Election is also required.

III. Claims 54-57, drawn to a method of identifying a compound with anticancer activity in vitro. If this Group is elected, then the below Summarized Species Election is also required.

The above inventions lack unity of invention under PCT Rule 13.1 because methods of identifying ATP Citrate Lyase inhibitors are known in the art as evidenced by the teaching of Ki et al. (Ki et al. Radicicol binds and inhibits mammalian ATP Citrate Lyase. *The Journal of Biological Chemistry*. 2000; 275: 39231-39236) and Gribble et al. (US Patent 5,447,954). Thus, the requirement is proper as the inventions represented above as Groups I-III do not share a common inventive concept under PCT Rule 13.1.

Election of Species regarding Group I-III

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Specifically, applicant is required to elect a single disclosed species from each of the below items for examination purposes:

- 1) a single cancer/cell species e.g. glioblastoma (see specification, page 21, line 17 to page 22, line 3); and
- 2) a single ATP citrase lyase inhibitor e.g. hydroxycitrate (see specification, page 9, lines 20-21); and
- 3) a single tricarboxylate transporter inhibitor e.g. phosphoenolpyruvate (see claim 36 and specification page 11, lines 1-5).

In particular, each cancer cell species represents a distinct morphopathologic condition. Also, each ATP citrase lyase inhibitor and each tricarboxylate transporter inhibitor represent different chemical entities which may reasonably exhibit varying or different pharmacologic and pharmaceutical properties. Thus, exposure of a particular morphopathologic cancer cell type and/or treatment of an individual with a particular cancer with different combinations of ATP lyase inhibitor/tribarboxylated transporter inhibitor would reasonably result in varying or different end treatment results. To the extent that the end treatment results in practicing the instant claimed inventions would vary depending on the specific ATP lyase inhibitor/tribarboxylated transporter inhibitor used and/or the specific morphopathologic cancer cell exposed to said specific agents, the above identified species are found to lack the same or corresponding special features because they do not constitute a general inventive concept. Applicant is required to elect one single specific species from each of the above items for examination purposes.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 10, 16, 27, 28, 52, and 54 are considered generic to the above species.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Inventorship Notice

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charlesworth Rae whose telephone number is 571-272-6029. The examiner can normally be reached between 9 a.m. to 5:30 p.m. Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sharmila G. Landau, can be reached at 571-272-0614. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 800-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

27 September 2008

/C. R./

Examiner, Art Unit 1611

/Sharmila Gollamudi Landau/

Supervisory Patent Examiner, Art Unit 1611